



PATENT

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September 26, 2003  
Date

Jason Añover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Ronald Berenson et al.  
Application No. : 10/603,577  
Filed : June 24, 2003  
For : COMPOSITIONS AND METHODS FOR RESTORING  
IMMUNE REPERTOIRE IN PATIENTS WITH  
IMMUNOLOGICAL DEFECTS RELATED TO  
AUTOIMMUNITY AND ORGAN OR  
HEMATOPOIETIC STEM CELL TRANSPLANTATION

Docket No. : 980034.422  
Date : September 26, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other

method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

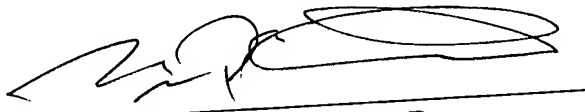
Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Commissioner is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Ronald Berenson et al.

Seed Intellectual Property Law Group PLLC



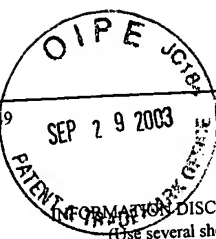
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Enclosures:

Postcard  
Form PTO-1449  
Cited References (28)

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

980034.422

APPLICATION NO.

10/603,577

APPLICANTS

Ronald Berenson et al.

FILING DATE

June 24, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,837,447	11/17/98	Gorski	435	6	
	AB	5,858,358	01/12/99	June et al.	424	130.1	
	AC	5,883,223	03/16/99	Gray	530	328	
	AD	6,352,694	03/05/02	June et al.	424	93.71	
	AE	2003/0119185	06/26/03	Berenson et al.	435	372	
	AF	2003/0124122	07/03/03	Berenson et al.	424	144.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AG	WO 94/28926	12/22/94	WIPO		
	AH	WO 95/33823	12/14/95	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AI	U.S. Serial No. 10/350,305 entitled "Activation and Expansion of Cells," filed January 22, 2003.
	AJ	U.S. Serial No. 60/375,733 entitled "Compositions and Method for Restoring Immune Responsiveness in Patients with Immunological Defects," filed April 26, 2002.
	AK	Berge et al., "Selective Expansion of a Peripheral Blood CD8 <sup>+</sup> Memory T Cell Subset Expressing Both Granzyme B and L-Selectin During Primary Viral Infection in Renal Allograft Recipients," <i>Transplantation Proceedings</i> 30:3975-3977, 1988.
	AL	Bretscher, P., "The Two-Signal Model of Lymphocyte Activation Twenty-One Years Later," <i>Immunology Today</i> 13(2):74-76, 1992.
	AM	Bierer, B. et al., "Cyclosporin A And FK506: Molecular Mechanisms of Immunosuppression and Probes for Transplantation Biology," <i>Curr. Opin. Immun.</i> 5(5):763-773, 1993.
	AN	Cohen, P. et al., "Propagation of Mouse and Human T Cells with Defined Antigen Specificity and Function," <i>CIBA Foundation Symp.</i> 187:179-197, 1994.
	AO	Fowler, D. et al., "Donor CD4-Enriched Cell of Th2 Cytokine Phenotype Regulate Graft Versus-Host Disease without Impairing Allogeneic Engraftment in Sublethally Irradiated Mice," <i>Blood</i> 87(10):3540-3549, 1994.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Date: 09/26/03

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 980034.422		APPLICATION NO. 10/603,577	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Ronald Berenson et al.			
				FILING DATE June 24, 2003		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BB	Garland, R. et al., "The Use of Teflon Cell Culture Bags to Expand Functionally Active CD8 <sup>+</sup> Cytotoxic T Lymphocytes," <i>J. Immunol. Meth.</i> 227(1-2):53-63, 1999.					
	BC	Haanen, J. et al., "Selective Expansion of Cross-Reactive CD8 <sup>+</sup> Memory T Cells by Viral Variants," <i>J. Exp. Med.</i> 190(9):1319-1328, November 1999.					
	BD	Henderson, D. et al., "Comparison of the Effects of FK-506, Cyclosporin A and Rapamycin on IL-2 Production," <i>Immunology</i> 73(3):316-321, July 1991.					
	BE	June, C. et al., "The B7 and CD28 Receptor Families," <i>Immunology Today</i> 15(7):321-331, 1994.					
	BF	Liu, J. et al., "Calcineurin is a Common Target of Cyclophilin-Cyclosporin A and FKBP-FK506 Complexes," <i>Cell</i> 66:807-815, 1991.					
	BG	Liuzzo, G. et al., "Perturbation of the T-Cell Repertoire in Patients with Unstable Angina," <i>Circulation</i> 100:2135-2139, November 1999.					
	BH	Sakaguchi, S. et al., "Immunologic Tolerance Maintained by CD25 <sup>+</sup> CD4 <sup>+</sup> Regulatory T Cells: Their Common Role in Controlling Autoimmunity, Tumor Immunity, and Transplantation Tolerance," <i>Immunological Reviews</i> 182:18-32, August 2001.					
	BI	Salomon, B. et al., "B7/CD28 Costimulation is Essential for the Homeostasis of the CD4 <sup>+</sup> CD25 <sup>+</sup> Immunoregulatory T Cells that Control Autoimmune Diabetes," <i>Immunity</i> 12:431-440, April 2000.					
	BJ	Schmidt, D. et al., "The Repertoire of CD4 <sup>+</sup> CD28 <sup>+</sup> T Cells in Rheumatoid Arthritis," <i>Molecular Medicine</i> 2(5):11076-1551, September 1996.					
	BK	Shevach, E. et al., "Regulatory T Cells in Autoimmunity," <i>Annu. Rev. Immunol.</i> 18:423-449, 2000.					
	BL	Stephens, L. et al., "Human CD4 <sup>+</sup> CD25 <sup>+</sup> Thymocytes and Peripheral T Cells have Immune Suppressive Activity in Vitro," <i>Eur. J. Immunol.</i> 31:1247-1254, 2001.					
	BM	Weyand, C. et al., "Functional Properties of CD4 <sup>+</sup> CD28 <sup>+</sup> T Cells in the Aging Immune System," <i>Mech. of Ageing and Development</i> 102(2&3):131-147, May 1998.					
	BN	Woo, E. et al., "Cutting Edge: Regulatory T Cells from Lung Cancer Patients Directly Inhibit Autologous T Cell Proliferation," <i>J. Immunol.</i> 168(9):4272-4276, May 2002.					
EXAMINER				DATE CONSIDERED			
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